

## CLAIM AMENDMENTS

1 - 6. (canceled)

7. (previously presented) A heating element for igniting a pyrotechnic charge comprising a base body, a structured strip shaped resistance layer on said base body, and contact fields overlapping said resistance layer at ends thereof for applying a current pulse to the heating element, wherein

the heating element ~~[[has]]~~ having a mass of  $1.0 \times 10^{-9}$  kg to  $4.0 \times 10^{-9}$  kg, a specific resistance of  $1 \times 10^{-6} \Omega \text{m}$  to  $2 \times 10^{-6} \Omega \text{m}$ , ~~[[and]]~~ a specific heat capacity of 100 W/(kg.K) to 400 W/(kg.K), ~~and the heating element having~~ a cross sectional area of  $3.5 \times 10^{-10} \text{ m}^2$  to  $7.0 \times 10^{-10} \text{ m}^2$ ,

the resistance layer being composed of a sintered Ag/Pd resistance paste or a sintered Ag/Au/Pd resistance paste containing 30 to 50 mass% Ag and 35 to 50 mass % Pd, or a sintered Pt/W resistance paste containing 70 to 90 mass % Pt and 5 to 20 mass% W,

the base body ~~[[is]]~~ being composed of a high-temperature-resistant glass or glass-ceramic or ceramic with a thermal conductivity of at most 2 W/(m.K), and

the contact fields ~~[[are]]~~ being composed of sintered AgPd or AgPt thick-layer conductor paste with Pd or Pt proportions between 1 and 10 mass%.

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1           8. (currently amended) A heating element for igniting a  
2 pyrotechnic charge comprising

3           a base body, a structured strip shaped resistance layer  
4 on said base body, and contact fields overlapping said resistance  
5 layer at ends thereof for applying a current pulse to the heating  
6 element, wherein

7           the heating element ~~[[has]]~~ having a mass of  $1.0 \times 10^{-9}$  kg  
8 to  $4.0 \times 10^{-9}$  kg, a specific resistance of  $1 \times 10^{-6} \Omega \text{m}$  to  $2 \times 10^{-6} \Omega \text{m}$ ,  
9 ~~[[and]]~~ a specific heat capacity of 100 W/(kg.K) to 400 W/(kg.K),  
10 ~~and the heating element having~~ a cross sectional area of  $3.5 \times 10^{-10} \text{ m}^2$   
11 to  $7.0 \times 10^{-10} \text{ m}^2$ ,

12           the resistance layer being composed of a sintered Ag/Pd  
13 resistance paste or a sintered Ag/Au/Pd resistance paste containing  
14 30 to 50 mass% Ag and 35 to 50 mass % Pd, or a sintered Pt/W resis-  
15 tance paste containing 70 to 90 mass % ~~X~~ Pt and 5 to 20 mass% W,

16           the base body being composed of a high-temperature-  
17 resistant glass or glass-ceramic or ceramic with a thermal  
18 conductivity of at most 3 W/(m.K),

19           a heat barrier being applied to said base body which is  
20 comprised of a glass or glass-ceramic layer of a thickness of 20 to  
21 80  $\mu\text{m}$  and a thermal conductivity of at most 1.5 W/(m.K), and

22           the contact fields being composed of sintered AgPd or  
23 AgPt thick-layer conductor paste with Pd or Pt proportions between  
24 1 and 10 mass%.

9 -- 13 (canceled)